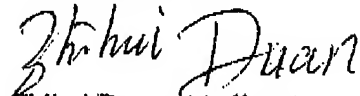



function can be moved out of MCM and the system functions will not be affected. If, for any reason the change is not in full condition for allowance, applicant respectfully requests the constructive assistance and suggestions of the Examiner.

Very respectfully,

  
Zhihui Duan, Applicant

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**Certificate of Transmission:** I hereby certify that this correspondence and referenced attachment are being facsimile transmitted to the Patent and Trademark Office at the number of (571) 273-8300 on January 2, 2006.

  
Zhihui Duan, Applicant

**Attachement: Appendix to Amendment A With Replacement Paragraphs Marks-Up to Indicate Changes**

**Appendix to Amendment A**  
**With Replacement Paragraphs Marks-Up to Indicate Changes**

Commissioner for Patents  
Washington, District of Columbia 20231

Sir:

Pursuant to Rule 121, the following is a copy of all paragraphs amended by the attached Amendment A, with all changes indicated by bracketing deletions and underlining additions:

*Page 3, last paragraph replace with the following new paragraph:*

--The motor control module (MCM) includes an inverter. MCM converts DC from a battery into AC to drive the electrical machines; it also converts AC from the electric machines into DC for the battery to store. MCM powers SG to start the engine, powers TM to drive the wheels, and controls TM to brake the wheels and regenerate electricity. [MCM also sets the positions of electrical switches for the electrical machines.]

*Page 5, last paragraph (extends to Page 6), replace with the following new paragraph:*

--Including an inverter, MCM 9 converts DC from a battery into AC to drive the electrical machines; it also converts AC from the electric machines into DC for Battery 11 to store. MCM 9 powers SG 3 to start Engine 1, powers TM 5 to drive the wheels, and controls TM 5 to brake the wheels and regenerate electricity. [It also controls the switches.]

*Claim 1, has been amended as follows:*

1. A hybrid electric vehicle comprising:  
an internal combustion engine;  
an alternator for starting said engine and for generating poly-phase alternating current, said alternator being mounted to [said] an engine shaft;

a direction switch for swapping two of [the] three power lines of said alternator;

a motor for providing driving and braking torque to the wheels of the vehicle, said motor being a multi-speed poly-phase induction motor and having a speed switch for changing [the] pole-pair number of said motor, said motor being electrically connected to said alternator through said speed switch and said direction switch;

a clutch for connecting said engine shaft to [said] a motor shaft and allowing said engine to drive the wheels directly;

a battery; and

a motor control module being connected to [the] electric power lines of said alternator and said motor, said control module inverting direct current from said battery into poly-phase alternating current with variable frequency, said control module converting alternating current from said alternator and said motor into direct current, [, said control module setting positions of said speed switch and said direction switch.]